

REPLACEMENT SHEETS .

Inventor: Jürgen Behrens, et al.

Appln. No. 09/587,574

Atty. Docket 103701-402NP

Fig. 1 of 10



1/10

MSSAVLTLLPD PSSSFREDAPRPPVPGEEGETPPCQPSVGKVQSTKPMPVSSNARRNED	60
GLGEPEGRASPDSPLTRWTKSLHSLLGQDGAYLFRTFLEREKCVDTLDFWFACNGFRQM	120
<u>NLKDTKTLRVAKAIYKRYIENNSVVS</u> KQLKPATKTYIRDGIKKQQIGSVMFDQAQTEIQA	180
VMEEENAYQVFLTSIDIYLEYVRSGGENTAYMSNGGLGSLKVLCGYLPTLNEEEEWTCADLK	240
CKLSPTVVGLSSKTLRATASVRSTETAENGGRFSFKRSDPVNPyHVGSGYVFAPATSANDS	300
ELSSDALTDDSMSMTDSSVDG/PPYRMGSKKQLQREMHRSVKANGQVSLPHFPRTHRLPK	360
EMTPVEPAFAAELISRLEKLKLELSRHSLERLQQIREDEEKEGSEQALSSRDGAPVQ	420
HPLALLPSGSYEEDPQTILDDHLSRVLKTPGCQSPGVGRYSPRSRSPDHHHQHHHQCH	480
TLLSTGGKLPPVAACPLLLGGKSFLTKQTTKHVHHHYIHHHAVPKTKEEIAEATQRNRCL	540
CPGGTDYYCYSKCKHPKAPEPLPGEQFCGSRGGTLPKRNAKGTEPGLALSARDGGMSSA	600
AGGPQLPGEEGDRSQDVWQWMLESERQSKSKPHSAQSIRKSYPLESARAAPGERVSRHHL	660
LGASGHRSVARAHPFTQDPAMPPPTLAQLEEACRRLAEVSKPQKQRCCVASQQRD	720
RMHSAAGQCAGASPFFANPSLAPEDHKEPKKLASVHALQASELVVTYFFCGEEIPGYRRMLKA	780
QSLTLGHFKEQLSKKGNYRYYFKKASDEFACGA/FEEIWDDETVLPMYEGRILGKVERID	840

REPLACEMENT SHEETS

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Appln. No. 09/587,574

Atty. Docket 103701-402NP

Fig. 2 of 10

2/10

CAGCCGTTCGCGATGGATTCGGGGCCACCCGGAGGCCGAGGCCTCGGCTCCCCAAAGG	60
AGAGCTTGCTGTAAAAGAGAGGAGGCTCACATGAGCCCTGCGTACTAAGAGAGACCA	120
AGCCGATTGCTGAGAGGAACCTGAAAGAACGAAAGGAGGAGGAGGAAAAAAAGCAAAAC	180
AAAATCAAACCTCAGTGAGACGCTCCCTCACCATGAGTAGCGCCGTGTTAGTGA	240
CCTTCCAGATCCCAGCAGCAGCTCCCGAGGGATGCTCCGGCCCCGGTCCGGGAGA	300
AGAAGGGGAGACCCACCGTCTCACCCTAGTGTGGCAAGGTCCAGTCCACCAAACCTAT	360
GCCCGTTCCCTAATGCTAGGCAGAATGAGATGGACTGGGGAGCCCAGGGGGGGC	420
CTCCCCGATTCCCCTTGACCAGGTGGACCAAGTCTTACACTCCTTGTTGGTGACCA	480
<u>GGATGGTGATACCTCTCCGGACTTCTCGAGAGGGAGAAATGTGTGGATACGCTGGA</u>	540
CTTCTGGTTTGCTTGTAAATGGGTTCAAGCAGATGAACCTGAAGGATACAAAATTGCG	600
<u>AGTGGCCAAGCAATCTATAAGAGGTACATTGAGAACAACAGCGTGGCGCAAGCAGCT</u>	660
<u>GAAGCCCGCCACCAAGACCTACATACGAGATGGCATCAAGAACAGATGGCTCGGT</u>	720
<u>CATGTTGACCAGGCACAGACCGAGATCCAGGCAGTGTAGGGAGGAAATGCCTACCAGGT</u>	780
<u>GTTCCTGACTTCTGACATTACCTGGAATATGTGAGGAGTGGGGGGAAACACAGCTTA</u>	840
CATGAGTAACGGGGGACTGGGAGCCTAAAGGTCTTATGTGGCTACCTCCCCACCTGAA	900
TGAAGAAGAGGAGTGGACGTG TGCCGACCTAAGTCAAACCTCACCACCGTGGTGG	960
CTTGTCCAGCAAAACTCTCGGGCCACCGCGAGTGTGAGATCCACCGAAACAGCTGAAA	1020
CGGATTCAAGGTCTTCAAGAGAACGACCCAGTCAATCTTATCACGTAGGTTCCGGCTA	1080
TGTCTTGCAACAGCCACAGCGCCAACGACAGCGAGTTATCCAGCGACGCACTGACCGA	1140
CGAT TCCATGTCATGACGGACAGTAGCGTAGATGGAGTCCCTCTTACCGCATGGGAG	1200
TAAGAACACGCTCCAGAGAGAGATGCATCGCAGTGTGAAGGCCAATGCCAAGTGTCTCT	1260
<u>ACCTCATTTCCGAGAACCCACCGCCTGCCAAGGAGATGACGCCCTGTGGAACCTGCTGC</u>	1320
<u>CTTCGCCGCCAGCTCATCTCCAGGCTGGAGAACATGAAACTGGAGCTGGAAAGCCGCCA</u>	1380
<u>TAGCTGGAGGAGCGGCTGCAGCAGATCCGGGAGGATGAAGAAAGGAGGGTCTGAGCA</u>	1440
<u>GGCCCTGAGCTCACGGATGGAGCACCGGTCCAGCACCCCTGGCCCTCACCTCCGG</u>	1500
<u>CAGCTATGAAAGAGGACCCACAAACATTTTGGACGACCACCTCTCCAGGGTCTCAAGAC</u>	1560
<u>CCCCGGCTGCAATCCCCTGGTGTGGTCGCTACAGCCCACGGTCCCCTCCCCGACCA</u>	1620
CCACCAACAGCACCACCACTCAGCAGTGTATACCCCTTCTTCGAATGGGGCAAGCT	1680
GCCCCCGTGGCTGCTTCCCCCTCTTGGAGGCAAGAGCTTCTGACCAAAACAGACGA	1740
GAAGCACGTTACCACCACTACATCCACCAACGCCGCTCCCAAGACCAAGGAGGAGAT	1800
CGAGGCAGAACCCACACAGAGTCCGCTGCCCTGTCTGGGGAACAGATTATTATTG	1860
CTACTCCAAATGCAAAGCCACCCGAAGGCTCCAGAGCCCCCTGCCCTGGGGAGCAGTGTG	1920
TGGCAGCAGAGGTGGTACCTGCCCCAAACGGAATGCAAAGGGCACCGAACCGGGTCTTG	1980
ACTGTCGGCCAAGGATGGAGGATGTCAGTGCAGCGGGGGCCCGAGCTTCTGGGG	2040
AGAAGGAGACCGGTACAGGATGTCAGTGGCAGTGGATGTGAGATGAGCGGAGAGCAA	2100
GTCCAAGCCCCATAGTGCCAAAGCATAAGAAAGAGCTACCCATTGGAGTCTGCCGTGC	2160
GGCCCCAGGAGAACGAGTCAGCCGGCACCATCTGTTGGGGCCAGCGGACACTCCGCTC	2220
AGTGGCCCGGCTCACCCATTACCCAGGACCTGCAATGCCCTCCCTACCCAOCCAA	2280
CACTTGGCACAGCTAGAGGAAGCTGCCGCAAGCTGGCACAGGTGTCGAAGCCCCAGAA	2340
GCAGCGGTGCTCGTGGCCAGTCAGCAGAGGACAGGAACCACTGGCTGTTGGTCAGGC	2400
AGGAGCCTCACCCCTGCCAACCCAAAGCCTGGCTCCAGAACAGTACAAGAGCCAAAGAA	2460
ACTGGCAAGTGTCCACGCGCTCCAGGGCAGTGTAGCTGGTTGTACCTACTTTCTGTGG	2520
AGAAGAAATTCCATACAGGAGGATGCTGAAGGCTCAAAGCTTGACCCCTGGGCCACTTCAA	2580
GGAGCAGCTCAGCAAAAGGGAAATTACACAGGTATTATTTCAAGAAGGCAGTGACGAATT	2640
TGCCTGCGGAGCAGTTTGAGGAGATCTGGGACGACGAGACAGTGTCTCCCATGTACGA	2700
AGGCAGGATCCTGGCAAGTGGAGAGGATC GACTGAGCCTGGCTCTCGGCGTCAA	2760
CCTGGCAAGCACCTCGCGTGCACCATGGAGCCGAAGCCAGAGACCCGTCTCAGGCC	2820
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Appln. No. 09/587,574

Atty. Docket 103701-402NP

Fig. 3 of 10

3/10

215	ATG	AGT	AGC	GCC	GTG	TTA	GTG	ACT
1	M	S	S	A	V	L	V	T
CTC	CTT	CCA	GAT	CCC	AGC	AGC	AGC	TTC
L	L	P	D	P	S	S	S	F
CGC	GAG	GAT	GCT	CCG	CGG	CCC	CCG	GTT
R	E	D	A	P	R	P	P	V
CCG	GGA	GAA	GAA	GGG	GAG	ACC	CCA	CCG
P	G	E	E	G	E	T	P	P
TGT	CAG	CCT	AGT	GTG	GGC	AAG	GTC	CAG
C	Q	P	S	V	G	K	V	Q
TCC	ACC	AAA	CCT	ATG	CCC	GTT	TCC	TCT
S	T	K	P	M	P	V	S	S
AAT	GCT	AGG	CGG	AAT	GAA	GAT	GGA	CTG
N	A	R	R	N	E	D	G	L
GGG	GAG	CCC	GAG	GGG	CGG	GCC	TCC	CCC
G	E	P	E	G	R	A	S	P
GAT	TCC	CCT	TTG	ACC	AGG	TGG	ACC	AAG
D	S	P	L	T	R	<u>W</u>	<u>T</u>	<u>K</u>
TCT	TTA	CAC	TCC	TTG	TTG	GGT	GAC	CAG
S	L	H	S	L	L	G	D	Q
GAT	GGT	GCA	TAC	CTC	TTC	CGG	ACT	TTC
D	G	A	Y	L	F	R	T	F
CTG	GAG	AGG	GAG	AAA	TGT	GTG	GAT	ACG
L	E	R	E	K	C	V	D	T
CTG	GAC	TTC	TGG	TTT	GCT	TGT	AAT	GGG
L	D	F	W	F	A	C	N	G

Abb. 3

ERSATZBLATT (REGEL 26)

REPLACEMENT SHEETS

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Appln. No. 09/587,574

Atty. Docket 103701-402NP

Fig. 4 of 10

4/10

TTC	AGG	CAG	ATG	AAC	CTG	AAG	GAT	ACC
F	R	Q	M	N	L	K	D	T
AAA	ACT	TTG	CGA	GTG	GCC	AAA	GCA	ATC
K	T	L	R	V	A	K	A	I
TAT	AAG	AGG	TAC	ATT	GAG	AAC	AAC	AGC
Y	K	R	Y	I	E	N	N	S
GTT	GTC	TCC	AAG	CAG	CTG	AAG	CCC	GCC
V	V	S	K	Q	L	K	P	A
ACC	AAG	ACC	TAC	ATA	CGA	GAT	GGC	ATC
T	K	T	Y	I	R	D	G	I
AAG	AAG	CAA	CAG	ATC	GGC	TCG	GTC	ATG
K	K	Q	Q	I	G	S	V	M
TTT	GAC	CAG	GCA	CAG	ACC	GAG	ATC	CAG
F	D	Q	A	Q	T	E	I	Q
GCA	GTG	ATG	GAG	GAA	AAT	GCC	TAC	CAG
A	V	M	E	E	N	A	Y	Q
GTG	TTC	TTG	ACT	TCT	GAC	ATT	TAC	CTG
V	F	L	T	S	D	I	Y	L
GAA	TAT	GTG	AGG	AGT	GGG	GGG	GAA	AAC
E	Y	V	R	S	G	G	E	N
ACA	GCT	TAC	ATG	AGT	AAC	GGG	GGA	CTG
T	A	Y	M	S	N	G	G	L
GGG	AGC	CTA	AAG	GTC	TTA	TGT	GGC	TAC
G	S	L	K	V	L	C	G	Y
CTC	CCC	ACC	TTG	AAT	GAA	GAA	GAG	GAG
L	P	T	L	N	E	E	E	E

Abb. 3

ERSATZBLATT (REGEL 26)

REPLACEMENT SHEETS

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Appln. No. 09/587,574

Atty. Docket 103701-402NP

Fig. 5 of 10

5/10

TGG W	ACG T	TGT C	GCC A	GAC D	CTC L	AAG K	TGC C	AAA K
CTC L	TCA S	CCC P	ACC T	GTG V	GTT V	GGC G	TTG L	TCC S
AGC S	AAA K	ACT T	CTT L	CGG R	GCC A	ACC T	GCG A	AGT S
GTG V	AGA R	TCC S	ACG T	GAA E	ACA T	GCT A	GAA E	AAC N
GGA G	TTC F	AGG R	TCC S	TTC F	AAG K	AGA R	AGC S	GAC D
CCA P	GTC V	AAT N	CCT P	TAT Y	CAC H	GTA V	GGT G	TCC S
GGC G	TAT Y	GTC V	TTT F	GCA A	CCA P	GCC A	ACC T	AGC S
GCC A	AAC N	GAC D	AGC S	GAG E	TTA L	TCC S	AGC S	GAC D
GCA A	CTG L	ACC T	GAC D	GAT D	TCC S	ATG M	TCC S	ATG M
ACG T	GAC D	AGT S	AGC S	GTA V	GAT D	GGA G	GTC V	CCT P
CCT P	TAC Y	CGC R	ATG M	GGG G	AGT S	AAG K	AAA K	CAG Q
CTC L	CAG Q	AGA R	GAG E	ATG M	CAT H	CGC R	AGT S	GTG V
AAG K	GCC A	AAT N	GGC G	CAA Q	GTG V	TCT S	CTA L	CCT P
CAT H	TTT F	CCG P	AGA R	ACC T	CAC H	CGC R	CTG L	CCC P

Abb. 3

ERSATZBLATT (REGEL 26)

REPLACEMENT SHEETS

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Appln. No. 09/587,574

Atty. Docket 103701-402NP

Fig. 6 of 10

6/10

AAG	GAG	ATG	ACG	CCT	GTG	GAA	CCT	GCT
K	E	M	T	P	V	E	P	A
GCC	TTC	GCC	GCC	GAG	CTC	ATC	TCC	AGG
A	F	A	A	E	L	I	S	R
CTG	GAG	AAA	CTG	AAA	CTG	GAG	CTG	GAA
L	E	K	L	K	L	E	L	E
AGC	CGC	CAT	AGT	CTG	GAG	GAG	CGG	CTG
S	R	H	S	L	E	E	R	L
CAG	CAG	ATC	CGG	GAG	GAT	GAA	GAA	AAG
Q	Q	I	R	E	D	E	E	K
GAG	GGG	TCT	GAG	CAG	GCC	CTG	AGC	TCA
E	G	S	E	Q	A	L	S	S
CGG	GAT	GGA	GCA	CCG	GTC	CAG	CAC	CCC
R	D	G	A	P	V	Q	H	P
CTG	GCC	CTC	CTA	CCC	TCC	GGC	AGC	TAT
L	A	L	L	P	S	G	S	Y
GAA	GAG	GAC	CCA	CAA	ACC	ATT	TTG	GAC
E	E	D	P	Q	T	I	L	D
GAC	CAC	CTC	TCC	AGG	GTC	CTC	AAG	ACC
D	H	L	S	R	V	L	K	T
CCC	GGC	TGT	CAA	TCC	CCT	GGT	GTG	GGT
P	G	C	Q	S	P	G	V	G
CGC	TAC	AGC	CCA	CGG	TCC	CGC	TCC	CCC
R	Y	S	P	R	S	R	S	P
GAC	CAC	CAC	CAC	CAG	CAC	CAC	CAC	CAT
D	H	H	H	Q	H	H	H	H

Abb. 3

ERSATZBLATT (REGEL 26)

REPLACEMENT SHEETS

Inventor: Jurgen Behrens, et al.

Appln. No. 09/587,574

Atty. Docket 103701-402NP

Fig. 7 of 10

7/10

CAG Q	CAG Q	TGT C	CAT H	ACC T	CTT L	CTT L	TCG S	ACT T
GGG G	GGC G	AAG K	CTG L	CCC P	CCC P	GTG V	GCT A	GCT A
TGC C	CCC P	CTC L	CTT L	GGA G	GGC G	AAG K	AGC S	TTC F
CTG L	ACC T	AAA K	CAG Q	ACG T	ACG T	AAG K	CAC H	GTT V
CAC H	CAC H	CAC H	TAC Y	ATC I	CAC H	CAC H	CAC H	GCC A
GTC V	CCC P	AAG K	ACC T	AAG K	GAG E	GAG E	ATC I	GAG E
GCA A	GAA E	GCC A	ACA T	CAG Q	AGA R	GTC V	CGC R	TGC C
CTC L	TGT C	CCT P	GGG G	GGA G	ACA T	GAT D	TAT Y	TAT Y
TGC C	TAC Y	TCC S	AAA K	TGC C	AAA K	AGC S	CAC H	CCG P
AAG K	GCT A	CCA P	GAG E	CCC P	CTG L	CCT P	GGG G	GAG E
CAG Q	TTT F	TGT C	GGC G	AGC S	AGA R	GGT G	GGT G	ACC T
TTG L	CCA P	AAA K	CGG R	AAT N	GCA A	AAG K	GGC G	ACC T
GAA E	CCG P	GGT G	CTT L	GCA A	CTG L	TCG S	GCC A	AGG R
GAT D	GGA G	GGG G	ATG M	TCC S	AGT S	GCA A	GCG A	GGG G

Abb. 3

ERSATZBLATT (REGEL 26)

GGC	CCC	CAG	CTT	CCT	GGG	GAA	GAA	GGA
G	P	Q	L	P	G	E	E	G
GAC	CGG	TCA	CAG	GAT	GTC	TGG	CAG	TGG
D	R	S	Q	D	V	W	Q	W
ATG	TTG	GAG	AGT	GAG	CGG	CAG	AGC	AAG
M	L	E	S	E	R	Q	S	K
TCC	AAG	CCC	CAT	AGT	GCC	CAA	AGC	ATA
S	K	P	H	S	A	Q	S	I
AGA	AAG	AGC	TAC	CCA	TTG	GAG	TCT	GCC
R	K	S	Y	P	L	E	S	A
CGT	GCG	GCC	CCA	GGA	GAA	CGA	GTC	AGC
R	A	A	P	G	E	R	V	S
CGG	CAC	CAT	CTG	TTG	GGG	GCC	AGC	GGA
R	H	H	L	L	G	A	S	G
CAC	TCC	CGC	TCA	GTG	GCC	CGG	GCT	CAC
H	S	R	S	V	A	R	A	H
CCA	TTT	ACC	CAG	GAC	CCT	GCA	ATG	CCT
P	F	T	Q	D	P	A	M	P
CCC	CTT	ACC	CCA	CCC	AAC	ACT	TTG	GCA
P	L	T	P	P	N	T	L	A
CAG	CTA	GAG	GAA	GCC	TGC	CGC	AGG	CTG
Q	L	E	E	A	C	R	R	L
GCA	GAG	GTG	TCG	AAG	CCC	CAG	AAG	CAG
A	E	V	S	K	P	Q	K	Q
CGG	TGC	TGC	GTG	GCC	AGT	CAG	CAG	AGG
R	C	C	V	A	S	Q	Q	R

Abb. 3

ERSATZBLATT (REGEL 26)

9/10

GAC D	AGG R	AAC N	CAC H	TCG S	GCT A	GCT A	GGT G	CAG Q
GCA A	GGA G	GCC A	TCA S	CCC P	TTC F	GCC A	AAC N	CCA P
AGC S	CTG L	GCT A	CCA P	GAA E	GAT D	CAC H	AAA K	GAG E
CCA P	AAG K	AAA K	CTG L	GCA A	AGT S	GTC V	CAC H	GCG A
CTC L	CAG Q	GCC A	AGT S	GAG E	CTG L	GTT V	GTC V	ACC T
TAC Y	TTT F	TTC F	TGT C	GGA G	GAA E	GAA E	ATT I	CCA P
TAC Y	AGG R	AGG R	ATG M	CTG L	AAG K	GCT A	CAA Q	AGC S
TTG L	ACC T	CTG L	GGC G	CAC H	TTC F	AAG K	GAG E	CAG Q
CTC L	AGC S	AAA K	AAG K	GGA G	AAT N	TAC Y	AGG R	TAT Y
TAT Y	TTC F	AAG K	AAG K	GCG A	AGT S	GAC D	GAA E	TTT F
GCC A	TGC C	GGA G	GCA A	GTT V	TTT F	GAG E	GAG E	ATC I
TGG W	GAC D	GAC D	GAG E	ACA T	GTG V	CTC L	CCC P	ATG M
TAC Y	GAA E	GGC G	AGG R	ATC I	CTG L	GGC G	AAA K	GTG V
GAG E	AGG R	ATC I	GAC D	TGA STOP	2737			

Abb. 3

ERSATZBLATT (REGEL 26)

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Appln. No. 09/587,574

Atty. Docket 103701-402NP

Fig. 10 of 10

10/10

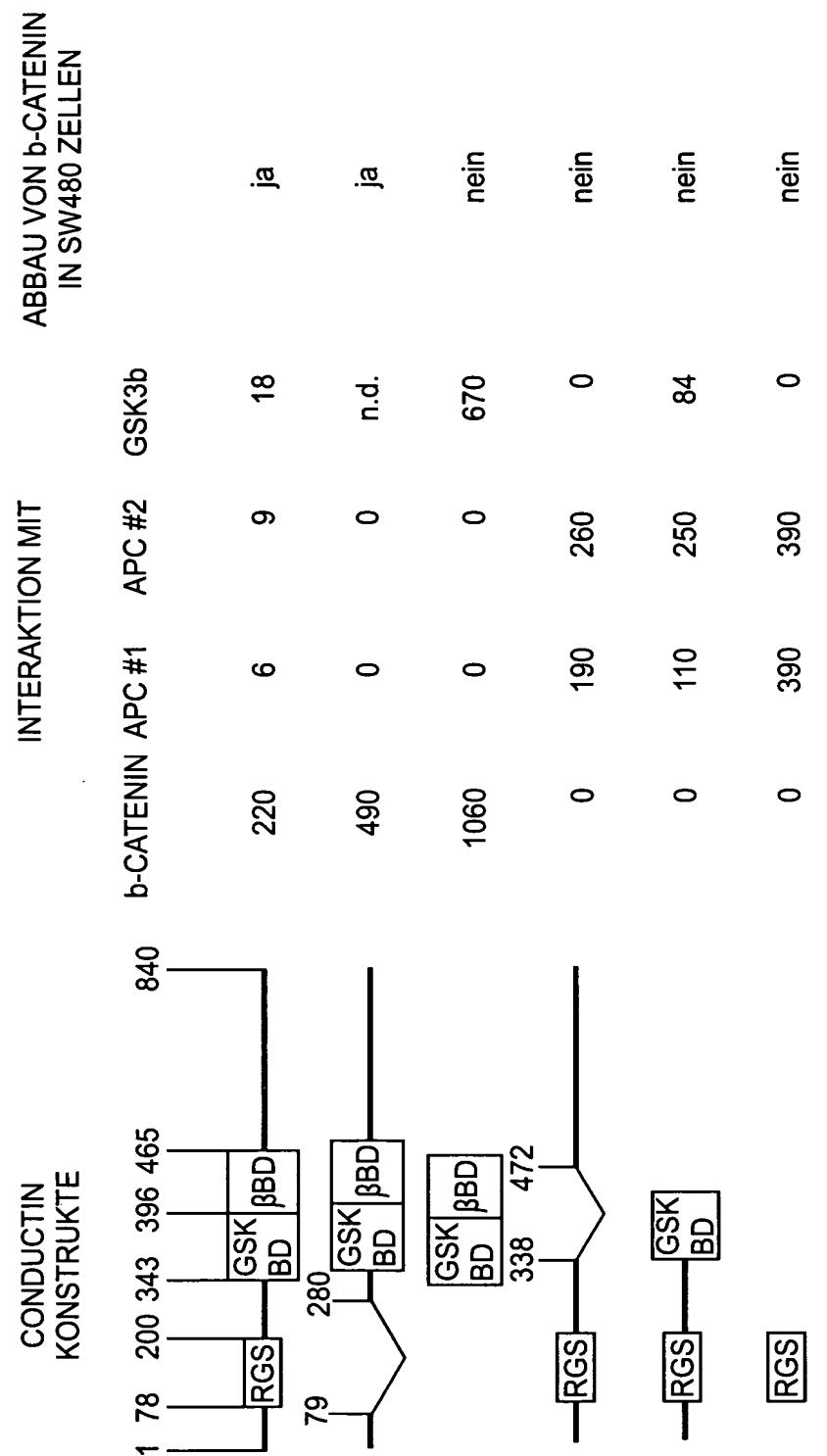


Abb. 4

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